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After knowing a reality—and a necessary force—children will be returning to their classrooms in September. Fresh from computer camps where they will have created Web sites, programmed PCs and participated in projects with kids on the other side of the country and around the world. And because their education didn't stop when the last bell rang at the end of June, their teachers also have to be up on the possibilities of new technology to keep these computer-camp kids from slipping at the heels of their own success computing knowledge.

Computer-aided education is stretching across the boundaries of age as well. Multimedia CD-ROMs are now available to help children as young as three learn to read and become comfortable with a keyboard mouse and monitor the boundaries are being created at the other end of the age spectrum too. Gaming and programs to learn about possibilities of computing is not limited to the young. The most curious and enthusiastic student I saw at the recent Canada Canada 97 trip in late '96, his bright, curious grin as we travelled through the Harry Truman Convention Centre and I was asked how trying out every new gadget and having the details of every piece of software and hardware explained to him.

The definition of "ability" is also changing. Thanks to new technology it is opening doors to people previously locked by their handicaps. In one great instance this month page 16's author and teacher

creative Hillary van Wier describes how she witnessed computers being employed to help open up the world of learning to even severely disabled children.

In this issue we are aware online learning is providing access to people previously unable to participate due to time or distance barriers. Our page 30's and British Columbia, due to their present work are leading the way. Researchers at both of the universities in the lower mainland are developing software and other tools that enhance the participation of students in remote locations, allowing them to tailor their course of study to their needs and schedules.

Long distance learning is proliferating on the World Wide Web, where, for example, there are three courses for learning a number of languages, including Chinese, French, Hindi, Arabic and even Tamil (see page 14).

For the curious, technology is leading down barriers and opening up the whole wide world to those who want to take the trip.

New face

Regular readers of the Computer Player will notice that there is a new face on this page. The guest writer for this edition is Mary Collins, who is based in Toronto, will be curating a catalog of the editorial direction of the Computer Player and the other Canada Computer Family. The really good news is that, with an associate editor here in Vancouver, we'll have an opportunity to give better coverage to computer-related developments and news in British Columbia. To the end let us know what you think and what you'd like to see covered in the Computer Player!

For those of you who have enjoyed this monthly subscription take heart you can still read my column every month at the Canada Computer Web site. Just point your browser to <http://www.toronto-computer.com/>

Mary Johnston
 Associate Editor
 maryjohn@cs

Your letters please

Letters to us are read in the paper or posted on our website. Please be brief! We cannot be held responsible for letters not published. Letters may be edited for space or content.

Quarter Size Does Not Compute

Alan Zisman's Article "Water, not, water, not" in your July 1997 discusses an important issue: the waste of disk space caused by large column sizes.

Unfortunately, the article overstates the case in two of three examples. If a drive has a column size of 4 (1,234) characters or bytes, and each file contains an average of half a character (0.442) then water 3,529,508

characters (based on a calculation of $1/442 \times 4 \times 1,234,321$) is approximately equivalent with Mr. Zisman.

However, if the column size is 36 (1,000) characters, then 8,408 files would be 84,080,356 characters (based on a calculation of $8,408 \times 36 \times 1,024 / 2$), about half the 175 million Mr. Zisman indicates.

Similarly a column size of 52 (1,000) characters and 90,000 files would be 163,840,000 characters (based on a calculation of $16,000 \times 52 \times 1,024 / 2$), about half the 330 million Mr. Zisman indicates.

I have already used the main point of the article that water should be minimized. I correct the examples only to strengthen the case. The correct numbers on the second (breakdown) page may not be as large as Mr. Zisman's but they are still big.

David P. Marston
 Alan Zisman replies: David Marston is absolutely correct. I caught me in a math mistake (and me a much earlier in my day job). I suspect I neglected the last step about how to find the number of files or how on my hard drive is worse than the figures currently estimated by Mr. Marston. In fact, they are close to my (CORRECT) number. My previous email miscalculations of that 890 MB partition drive (which I've cleaned up to now have only 6.115 GB) suggest 192 MB of waste space representing 22 to 30 percent of space (depending on whether you compare it to the total space used, or the space actually used by files).

ally used by files).

Mr. Marston is right in his conclusion, cleaner water is a problem, and we all need it to drink. Shouldn't we check our math?

Cheap Shave

I was interested in reading that digital cameras are getting smaller and cheaper. Digital cameras survey July 1997 what I am not clear on is the operating cost or per-picture cost for these systems. Am I correct that the cost is negligible? Is it small up to be insignificant? If so, it wouldn't hurt many consumers to add up to this 194199.

Sincerely,

Franklin Wipac. Price is right.
 Megan Johnston replies: Your assumption that the operating cost is negligible is correct, however there are no consumables in a film-less digital camera. There is, of course, the cost of photography, but that is also the case with film-based photography. For some digital cameras, extra memory is not sold as a separate unit, but even this is reusable. The more significant consideration at this point is the development of digital and photography is quality. At the consumer level, film cost is not the edge—far from.

The Future of CD2 Really

One of the main reasons I make a point of writing the Computer Player each month is seeing Linda's CD2 column. Hope is in the next issue.

Thanks, David Cull



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Opening the July Computer Player, I find Terrie Linfield's "OS/2 finally" column nowhere to be found. Please bring it back! (It's easily missed.)

Thanks, Michael Meltington

Wagon Johnson replies: Your snub is my command. OS/2 finally returns this month in the Computer Player on page 30. Also, for more on OS/2, turn to the "Shouldn't Us" and again on page 33 for Kevin Linfield's reply in OS/2 reader's questions.

Another OS/2 fix

I have to say that I enjoyed your article "Observations: CPT June 97," which made me reconsider the purchase of my A42 drive. That is until I read into Terrie's Web page looking for OS/2 Games for the light drive. To my dismay, I could find no indication that A42 had ever been of OS/2.

Since you have shown good support for OS/2 over the years, I feel that it should be mentioned where OS/2 drives are not available for a recommended product.

Did this just me to my request that they are providing 40 million potential users who are technically more aware and therefore more likely to choose the technically best product if they support it under OS/2.)

Richard Fleming, via e-mail

White Pages to list email addresses, URLs—for a fee

The next White Pages listing desired to your start will likely be a little later. BCN is now offering to include email and uniform resource locator (URL) addresses for the photo listing for your business, residential or government number if you have more than one electronic address—no problem. You can have both for all listed. Cost for the new service is billed to your monthly phone bill at a rate of \$1.00 (plus tax), with an additional one-time "administration" charge of \$9.95.

According to BCN, having your email address listed is just one of the features incorporated with trying to communicate your address verbally over the phone—especially if your address includes unusual characters or keyboard symbols.

In keeping with the program, requesting your electronic listing be included in the White Pages can only be done electronically through an order form found on the BCN Web site at <http://www.bcn.com>. You'll also



Street Buzz

STEVE DYER

And the deadline for submitting email and Web addresses for your area is next. White Pages directory and the data directory will be issued on a schedule based on the Web site if you have questions, email BCN directly at webpage@bcn.com.

Glasgow Gets Huge Telecom Contract

Chonghua Telecom, Toronto's national telecommunications company has contracted Vancouver-based Glasgow Technologies Inc. to establish a state-of-the-art nationwide paging network—a deal valued at more than \$11 million. Chonghua Telecom is Taiwan's largest provider of paging services with more than two million subscribers. The new network will be capable of increasing the company's capacity for more than one million subscribers. During the next year, Glasgow will build three large wireless systems including switching centers and will install more than 3,500 transmitters and system controllers.

Glasgow provides telecommunications equipment and related software used by leading personal communications service (PCS) providers worldwide. The company specializes in paging, cellular, mobile processing, group-in-packet network architecture and communications network administration, protocol and systems. Glasgow's services reached roughly \$400 million last year and the company employs approximately 2,500 people worldwide for more information on Glasgow or to see the company's Web site at <http://www.glasgow.ca>.

Profits jump for Vancouver CRT Developer

Vancouver-based FirstClass Systems Corp. recently announced a significant increase in fiscal year end profits. Profits grew 71 percent, reaching nearly \$140,000 on revenues of roughly \$10 million compared to the previous year's profits of \$80,000 on revenues of roughly \$5 million. FirstClass Systems Corp. has been developing computer-based training and operations maintenance systems since 1987. For more information on FirstClass go to the corporate Web site at <http://www.firstclass.ca>.

Continued on page 18

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MMX 66 12MB 3 508 12 TFT
IPC H2000 32-cores 4-cores Col
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Online Education

By SANDRA MINIGAIL

Despite the choice in online courses, income-based rates have accelerated in delivery. Distance education students can register for accredited university courses graduate degrees or special-interest noncredit courses from high school and elementary schools can also learn from the comfort of their homes—although the selection is more limited for this age group.

New Breed of Custom Courseware

Traditionally, pre-purchase, university-affiliated distance-education courses require web-enabled audio cassette and wireless modems for downloading assignments. Teacher-student communication was limited to telephone calls. Distance learning was essentially an isolating experience.

Today, the emergence of client-server networks, online student assistance connections, and pedagogically sound learning management systems.

Toronto's Ryerson College uses a version of client-server software called Workshop. The software enables students to communicate with teachers through email, chat as well as text and graphics that create a special chat channel. Workshop allows students to access Ryerson's learning software over the Web, as well as the school's collection of CD-ROMs.

At the University of British Columbia, a department of computer science, Marlene Goffinet has been instrumental in the design of a distance-teaching tool that cost \$60,000 and connects colleges and businesses in almost 100 countries have signed up for beta testing of WebCT. The work built into this software has designed to maximize communication and collaboration over the Web.

Using WebCT, synchronous sharing of information is enabled through chat areas. Teachers tell class online, provide a custom study

guide, track their course progress and assess their learning on an ongoing basis. The software offers instructors a host of options. Course management includes revisions, online marking, record management and student tracking are all supported.

Josée Hestevic and Tom Cohen, professors at Simon Fraser University in Burnaby have developed VisualU, another server-based software system designed for the delivery of Web-enabled learning courses. VisualU is being beta-tested at 15 educational and corporate locations across Canada.

This software incorporates templates that prompt instructors on information such as required course readings, grading standards, group-coordinating assignments, and weekly assignments. Collaborative groups are set up and info and objectives defined. Conferences and self-directed learning options. Students can take notes in modern formats, or download.

As with most Web-enabled courseware, multimedia components such as video audio clips and animations may be inserted into course modules or assigned.

Control online courseware classes to be based on principles of online learning and information. Hence, the heavy use of both audio channels as well as synchronous conferencing. A learning model of distribution seems to be the most educational situation. Students can follow their own pace with a cup on how many modules can result in a course. The greater the number of students, the greater the initial success rate. Online help and support from the software developer enhance the job.

Emerging Courseware publishers

New and more educational institutions or



companies recognize the benefits of distance education. Yet for many, the knowledge and necessary commitment to course development is prohibitive. This need has spurred the development of commercial, pre-built or interactive Web-based courseware.

Emerging Online CD-ROM assets corporations and academic institutions in developing online courses. They explore content and develop online course content for delivery over the Internet and corporate networks. USAA is an adult e-commerce development consultant as a licensee of its own Web-enabled delivery system. It has found a number of partnerships with established institutions such as the University of California at Berkeley's continuing education department. The schools provide the content expertise while USAA provides the design and technical know-how.

This fall USAA's course catalogue will include 30 different offerings including 3D solid modeling, AutoCAD and Financial Accounting.

Online solutions are surfacing as well. The University of Alberta's e-learning technologies for learning group works with the university's departments in developing new instructional approaches. Professional development, up

Provincial Network Initiatives

As more and more Canadian school boards get wired, we witness a greater number of partnerships that pool talent, technical, and necessary resources. The New Brunswick educational network is working to connect its

large base of rural communities. A 1993 study showed that more than 50 percent of the province's population never completed high school, with about 24 percent of adults possessing less than a Grade 9 education. The province is making a major commitment to its distance-education strategy to improve these circumstances.

British Columbia's Open Learning Agency based in Burnaby is a partnership between provincial industry and education. The agency offers accredited university courses as well as kindergarten to Grade 12 courses. An online work-learning program was initiated in the past year.

British Columbia's Open School program follows the provincial curriculum. It is a branch of the technology and distance-education division of the Ministry of Education, Skills and Training. Open School services are delivered in partnership with the Knowledge Network and the Community Learning Network. Current courses include first, second studies as well as adult basic education.

Challenges Ahead

Without a doubt, innovations in distance education—the most acute of computer technology—keep on learning forward. Yet those committed to online learning must anticipate fundamental issues.

Bob Higgins of the Ontario Network has served over 300 online learners over the past year. One of his favorite's most popular courses teaches instructors how to deliver an online course. According to Higgins, many people believe that educational courseware can easily be developed and posted as a type of online lecture format. Dr. Higgins believes the sheer potential of distance learning is a medium that fosters cooperative learning and group interaction.

As online education matures, so too will the many facets of technical assistance and pedagogical strategies. With luck, students will reap the benefits. ♦

at their own pace.

Although pre-course are designed to be delivered, most self-paced correspondence courses still make the situation more immediate and satisfying. And I am now looking at writing up a mailing list for even greater interaction and offering courses designed as HTML files.

Shaking the dust off

There are differences between teaching in classroom and teaching online, but no worry. While I don't miss writing on blackboards and chalking chalk dust, I did miss the immediate feedback an instructor gives when looking up a class of students not to eyes, laugh or shut it down.

The feedback comes in classes progress, homework, and students become kinder in this course. I even had a class clown who sent a witty letter and got other students giggling.

Overall, feedback from students has been positive. Many have told me they felt they were getting "individual attention" and "personal feedback" even though the course was

Teaching Writing by Email

by Paul Lima

Three days the Internet is being used for more than sending e-mail, teaching for information or chat shop shopping. Technology is becoming an interactive learning medium.

As someone with 15 years experience teaching writing and communication courses, and to someone interested in technology and communications, I wondered if the Internet could actually replace the classroom. I connected my in-classroom writing, feedback writing, and media-based writing courses to other learners—conquered with two

times, personal exercises and assignments—and went looking for online students.

The first question that came to mind was: How do I promote my course? The answer online, of course I set up a page on my website and promoted there in appropriate newspapers and mailing lists.

While the response was overwhelming, I was pleased and surprised that students signed up after I'd been an individual not an educational institution. The first established my credibility with its interactive web-designed site and with prompt replies to requests for information.

Going Mainstream

After running a few private courses successfully, I contacted the continuing-education division of Georgian College to discuss my college located in Barrie, Ont. I shared information if it would be useful to make my courses part of their continuing-education program. They did and since last fall I have conducted online learning for over 10 private and college continuing-education students.

Students either send me a fax. I set up a low-cost online course prep or register for courses through the college. Once registered, students receive lessons by email. They also can email to ask questions, submit assignments, receive feedback on assignments and to communicate with other students.

While I am based in Toronto, the world has become my classroom. I have completed courses for students in Vancouver, Calgary, Banff, Chula, Toronto, Ohio, California, Jamaica, and South Africa.

The only pre-requisite for the courses is the desire to write and the ability to read and receive mail. Each course module includes lesson notes, research and writing exercises and assignments students submit for email feedback. This is similar to in-class situations where instructors use a variety of techniques: discussions, exercises, assignments and feedback to keep courses interesting.

College students have not course start dates and have to complete courses within a set period of time (about 12 weeks). For private students, one more course any time and work.

conducted online. Others find the fact that they could work at their own pace. At one end, I reported on having to rank off to class at 7 p.m. in a cold-story night."

It seems increasingly generally how upward study opportunities for business partnerships. Conducting online training has led to several opportunities for me. After six months of conducting courses, I've constituted new partnerships with Sheridan College and with an international broker in the United States who co-

ordinates courses for several American universities.

And there has been an unexpected bonus: several corporations have asked me to develop online writing and communication courses for their employees.

So can the Internet replace classroom training? Based on my individually limited online training experiences, the answer is no. And as audio-video instruction over the Net evolves, it

will become all this more effective and accessible training system. Contact the writer, Val Paul, Linn Communications. Web site at <http://web.linn.com/~canuck>.

Street Buzz

Continued from page 8

Maximizer Releases Free Web site Creation Software

Last month Vancouver-based Maximizer Technologies announced the first release of MAXI2Builder, a search-based Web site creation tool capable of quickly creating "professional looking" corners of Web sites. MAXI2Builder is integrated with the company's building, content management software, Maximizer VP. Each MAXI2Builder Web site is hosted in its own on-line business site called the Maximizer BusinessNet found at <http://www.maximizer.com>. There, any download customer profits from the site directly into their existing Maximizer database. Maximizer Technologies is a privately held company in the Multiserve Group of Companies, owned by Terry, the president of Coastal Pacific Developments. For more information on Maximizer Technologies, call 604-601-8000 or point your browser to <http://www.maximizer.com>.

Amsoft produces trades on TSE

Nationwide-based software producer Maximizer Technologies took to the Toronto Stock Exchange recently under the symbol (TSE). Maximizer creates the all C++ based Amsoft and their Wave automated software series, which is used in 46 countries. The company launched the initial public offering at their office share price at 600 stock Toronto-based Alliance Multimedia recently sold back 750,000 of its shares to the giant software series Maximizer is also producing two DIME line and a company game based on Amsoft in conjunction with computer gaming giant Electronic Arts.

AIJ Technologies, IBM to Develop Clinical Image System

Nationwide-based AIJ Technologies and IBM are jointly developing a medical image archiving technology capable of serving, creating, organizing, the Canadian health care industry. The Advanced of Research Industry and Information will lead the new venture with a \$300,000 apportioned grant. The project was awarded on a competitive basis with AIJ's submission being chosen from 250 applications. AIJ develops medical image management networks for hospitals and proprietary software and hardware systems for clinical imaging.

Steve Bar is the Computer Player/Canada Column writer corresponding in Vancouver, Canada. Send news tips, questions or comments to bar@theplayer.ca.



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CD-ROMs For Kids

by S.J. Ross

Choosing with-care and offering three levels of difficulty and choice to help your child learn to Read with Pads provides nine fun activities designed to teach and reinforce basic language skills such as the alphabet, upper and lower case letters, numbers

For many on Web 2.0, the program is easy to learn, engaging, and full of visual and audio candy. But with, for example, no insurance policies in French, users should have no more

The only CD-ROM to ever reach my desktop. How Would You Survive is not just picture book with a primitive animation and slide show and one part questionnaire/quiz. Offering a comprehensive look into the lives of ancient Egyptians, Vikings, and Aztecs. How Would You Survive—dragged for ch

5.] Yes, an independent corporate, marketing employee, and public relations writer and consultant for an extensive portfolio of corporate and government clients (no fee reached a \$1 million/yr. avg.)

B.C. CD-ROMs Offer Lessons in History, Geography, Creativity

Produced by VR OnLocation in partnership with CD-ROM focused on American heritage and culture. We'll view the United States as a whole or by region—investigating the most geographical information, highways and resources, history and business, culture.

tion and more. This disc is fully interactive and online enabled and users can add their own slides, pictures, sounds and text to create personal worksheets or may opt to create online adventures with others using FTP software. Designed for use in school projects, the Adventure.com comes complete with lesson plans, but is also recommended for family projects, business presentations, the travel industry and personal projects. Although compatible with symbols of 15 personal computers, users can visit www.adventure.com, a well-designed, entertaining, and informative project, to obtain a Windows-based CD-ROM.

Time journey starts about seven hours for the NorthWest Pavilion. Censor is the goddess

you'll navigate through seven rooms—and providing a different set of information on the Red Cross in the Theater, a multimedia documentary introduces you to the topic. Moving along, you'll read newspaper clippings on the Theater's Reading Rooms or use the Map Room to see how cities were shaped by local terrain, railroads, and political boundaries. The Document Library focuses on snippets of letters and records while the photo album in the Reading Room gives you glimpses of people and events a part of the American Red Cross collection dates



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Language Lessons

by *Lee Lester*

GO VIRTUAL

Japanese and Spanish are no mystery words to a chatter in Atlanta as she darts from language-album audiotapes in the West to the East. Kristin and Matt have their own Web site.

Of course, it's all very well to use the Web to acquire vocabulary and learn the rules of grammar and syntax, but how do you learn to pronounce, say "akemashiteiwa" (to join stock company) like a German or tell a French waiter "Monsieur, il y a une mouche dans le soupçon" (there is a fly in the soup)?

Speak Up

Just as in a book, online courses can provide phonetic approximations—but the big plus of online learning is that sound files can be played. Download them, record your own attempt, and compare. Just like language classes on an audio cassette or on CD-ROM.

Some language Web sites provide another big plus: discussion areas where even those with limited knowledge of a language can read what others have to say and contribute to discussions. Make a mistake and you are likely to have it gently drawn to your attention, and participants are likely to be as helpful as in other areas of the Net, such as those dealing with hardware or software problems.

Surprisingly, my search did not turn up many universities offering online courses. There's money there for the language departments of land-grant U.S. Canadian universities if they seize the opportunity.

Of the major Western languages, only German proved difficult to find. The one Web site that closely offered German caught my Macintosh to freeze every time I tried to access it. There are many Web sites offering English lessons.

But let's face it: To master a new language doesn't involve like speaking. With the growing use of Web phones, you could soon be practicing your pronunciation and receiving feedback with a native speaker in real time. So, how? Better chance? Viel Glück? Good luck! ■

Language Lessons

Here is a selection of Web sites offering free courses in foreign languages.

Chinese: With Windows or Online Chinese 101, Dr. Zhang Gaining of Lancaster University in Bendigo, Australia, has developed a simple but comprehensive introduction to a complex language that is becoming increasingly commercially important. Go to <http://chinese.bendigo.lancaster.edu.au/online101.htm>.

French: Oak, Ind. has *Net Lessons, Le Guide de la France*. Includes video-audiovisual lessons with native French videos, and French chat. To learn up on our other official language, go to <http://www.south.com/~france/>.

Hungarian: It's not so bad about the hardest European language to learn. But if you fancy your chances and want to ask for *gondolt* in Budapest, this site offers a comprehensive introduction, which can be viewed at <http://www.sosopen.edu/~csababuhungarian.html>.

Japanese: Try the newest training tool, operated by Pacific Software Publishing Inc. of Bellevue, Wash. To begin with the nearly instant introduction, go to <http://www.jpugamer.com/japan/>.

—Lee Lester

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Vancouver Web Site Wins Seven Canadian Internet Awards

SUITE 101

BY JUNE CAMPBELL

SUITE 101 from Vancouver's first communications website won seven prizes at the Canadian Internet Awards held in June. Suite 101 was awarded Best Internet Business, Best Technical Site, Best Tools and Data Services, in the Professional Development Group, Collaboration, Best Project or Pilot Best Online Service and Best Contribution to New Standards and Services.

The Canadian Internet Awards are a spin-off of the 97 site festival conference held in Halifax in 1996. Prior to the conference, the website was visited by numerous Canadian sites. "Suite 101 is proud to have been recognized by the people behind these 101 sites, amongst whom they received a message advising them that they had received nomination to 11 categories and that they should consider sending someone to the conference because you're going to be taking home two empty hands to be sure."

"Since the conference, Suite 101 has also been named the Website of the Day and was named Canada's Site of the Week, July 31st.

According to Suite 101's Brian MacInnes, who holds the title of special projects programmer/designer and web programmer (bbsuite101.com), Suite 101 is an excellent communications concept because it first builds community and then builds a Web site around that community. "Suite 101 is unique in that we have recruited over 100 editors from all over the world to help us help everyone else. Each editor is an expert in his/her field. He/she has the time and the desire to find and write a weekly article as well as moderating a discussion. Managing editors oversee the site for each section and copy editors keep a watchful eye for typos and spelling errors.

"We believe that people will come to our site because we have real people doing quality jobs and not a few thousand 100,000's of HTML for a month. If you have a question, usually one of our editors will be able to find the answer you are looking for. We think that the service goes well beyond the basic of the Web. Our service is free and everyday more and more people are asking to become an editor for a topic on which they are an expert."

"Whether an editor who wants the first through Internet video will appreciate another unique feature which is available only to registered users. Users can see their local market telephone numbers, appointments and schedules in a password protected area. A personal visited office in their accounts from any Internet enabled location.

Suite 101, which was developed by a discipline team, was online approximately one year ago. A variety of content options, offering both business and no-frills, default, may be.

To experience Suite 101, go to <http://www.suite101.com>. For more information on Pilot Communications call 604-461-1400.

June Campbell is the owner of Highways Multimedia Productions. You can reach her by email at jcampbell@hwp.com or by phoning 604-966-5219 during business hours.

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Back to School Basics

Multimedia Systems for Student Size Budgets

by Lynn Greiner and Sandra Mingot

If it wasn't time to head back to school and for students of all ages, thoughts that come to the backs of the "Yikes! And now we're spending computing is taking its place next to the traditional pencil, paper and eraser as a basic skill.

Besides being civil tools, computers can be invaluable for learning. In conjunction with an online service (the Internet) or a computer service such as CompuServe or America Online, your at-home pal can become a wise dove to the wisdom and mystery of the entire world.

We took a look at a line of relatively inexpensive machines to gauge their suitability for students. We looked at the machine itself, its software bundle and its connectivity to see if the package offered is one that would enhance the learning process as well as to provide a bit of fun. It is noted that the best choice depends not only on the student's needs but on the system used or recommended by their school. If you have to deal in computers based on Apple software, the version PC on the planet will be totally useless.

We work in desktop systems for this roundup although some estimates are actually now requiring laptops. (Check CPT for a couple of months for a peek at the cream of the current mobile crop.) Here's what we considered (alphabetical order by manufacturer except for the last two. All systems (except the Apple one) come with Windows 95 preinstalled.

USI Adventure 4200

This machine incorporates the following features: 386 MHz Intel Pentium Processor 2.0 GHz hard drive, 16 CD-ROM drives, 16 MB RAM, 4000 pixels with cartoonized, 35 FPS animation and 3D audio. It comes with a Canadian street price of \$1,999.

Installed software includes: Corel WordPerfect 7 basic (with Quattro 3D) and Microsoft Complete Reference (offers plus an encyclopedia, news page to Berkeley Systems called "Hot Spot" (new page) Microsoft Internet Explorer and runs up with more from America Online, CompuServe, Prodigy and AOL WorldNet.

WordPerfect and the Complete Reference Library are especially useful for high school students. The reference side incorporates 30 online books, including a dictionary, a thesaurus, a book of quotations and a legal dictionary. On the downside, the manual is heavy on American content.

Setup was straightforward in approximately 15 minutes. Connections were clearly labeled on the back of the CPU. The keyboard has a comfortable touch—compact if students are spending hours churning out a term paper.

There is little documentation provided for new users. The manual is rather cryptic and mainly provides the basics of installing, loading, saving, saving memory and saving. Jumpers like hardware, though, are reliable in performance. Display is crisp and sound very respectable.

Compaq Presario 2120

This is a very basic machine that ticks all of its components into a small, flat black box. (The only desktop model we saw.) Its CD-ROM drive squeaks and so forth. It has a 150 MHz MM processor with Virtual8, a 2 GB hard drive, 16 MB RAM and a 15.000px flat monitor. Performance is pretty. The price is very reasonable at \$1,999.

It was simple to assemble—the hardest part was opening the boxes—and comes with a 14-inch monitor. The software bundle is a bit thin, offering CompuServe, Interactive Encyclopedia, Microsoft Word 4.0, Quattro 3D, a trial version of Microsoft PE and a couple of games. Online access is provided through Internet Explorer, a sign-up for America Online and the ever-present Access Online.

At first look, Compaq announced that this model will be phased out over the next few months in favor of a slightly upgraded-down version. One memory module has been taken (new processor) coming several hundred of dollars less.

Hewlett-Packard Pavilion 7300

A pretty system that most we looked at, this has the just over \$1,999. It also includes a 230 MHz Pentium processor with MM, 12 MB RAM, a 1.9 GB hard drive, 16x CD-ROM, 15.000px, 1024x digital screen and a pair of Allen Lansing speakers that attach the CPU to 8P's multimedia unit. As well as the standard ports, it has a USB (universal serial bus) connection, the latest standard (according to the recently announced PC 95 spec) for connecting everything from monitors and keyboards to scanners.

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Back to School

Continued from page 22

5.0 GB harddisk drive, 12x CD-ROM drive and 52 MB RAM. The machine comes with a 15-inch monitor. Consider your price for this system is \$1,800.

The premium software bundle provides many useful tools for the classroom and workplace and includes: *Myra's Class Family* (available for Windows), *Myra's Mathworld Encyclopedia* (50 After by Electronic Arts), *Learning Writing Machine* by Broderbund, *Thinkin' Things 3* by Edmark, *Illustration*

Heritage Dictionary by Bellamy Whelan is the USA's Current Dictionary by Broderbund and *Pix* by Broderbund and *Quaverland* is a few games, a *Webpage* software tool, *Internet* (connecting net), and *Quaverland* (locking software) round out Apple's computer and software bundle.

Seamless Sequela PT-8200

Seamless was also available to supply a machine that provides an extra product space in its analysis model. The *Seamless PT-8200* features include a 200 MHz processor, Onyx (also 200 MHz) card, a

33-GBps modem with either a 2.5 GB hard disk drive, 12x CD-ROM drive and 52 MB RAM. It comes with a 15-inch monitor and 80 Wpc speakers. The model's 44,000 price tag places it well within the student market.

The package includes *MS Internet Explorer* and *Net. Moving*, as well as other games.

Editor's Choice awards

For *Editor's Choice* we've selected the 100. Finally the software bundle although more use than for other students, contains a great mix, and the system itself is powerful and easily configurable. Goodbye, too, with good connectivity and

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Hot Summer Software Bonanza



Summer is upon us and while the heat and humidity is on hand, why not check out some of the hot new OS/2 software releases? There are a number of new updates of products available to dedicated OS/2 users and many of them are available either free of charge for beta testing, or as a discount version versus.

Always a word to the wise—if you want beta software on your machine, don't expect perfection.

If you have been in jail I strongly recommended trying out the *Novell Office Suite*. I'm certain you will be as impressed with it as I am (see below).

Be on Acrobat

Adobe has finally released the limited version of their Adobe Acrobat Reader for OS/2. Acrobat Reader allows users to view PDF files created with Adobe Acrobat, a popular document publishing format. Available both as a

ScreenPIT plugin or as a standalone application, download a free copy from <http://www.adobe.com/os2>. Note that it requires OS/2 Warp 3.0 with Fixpack 20 or later.

Super Graphics

Thyngports Inc. of Tucson is now shipping the enhanced version of *PhotoGraphics Pro* for OS/2. *PhotoGraphics Pro 2.0* features support for additional graphics file formats, Thyng's for OS/2 scanner device drivers, optional Photoshop printing, new drawing tools, advanced image effects, and a flexible key image and clipboard library. Suggested retail price is \$349/95. Buy owners at retail or students at *PhotoGraphics Pro* upgrade for \$399/95. 8880 Aug. 31. Contact: <http://www.thyngports.com> or call 616-238-0340 for details.

Novell's Pables

Looking for an educational and fun gift for young children? Take a look at *Novell's Pables*. *Novell's Pables* is a CD-ROM with interactive stories for OS/2 and Windows. Features 40 classic fables and original stories for

OS/2. OS/2 Download a demo from <http://www.epicon.com> or email sales@epicon.com for more information.

Zip Me Up

ZipMe has released an upgraded version of *ZIPSP* for OS/2. Version 2.5 features OS/2 V2 file compatible compression, the ability to create self-extracting archives, the ability to open file access multiple desktops, and long file name support. Released at discount, download a copy from <http://www.zipme.com/zipme250.html>.

Free Email Client

In order to attract users to its upcoming free online email service, *Internet Solutions* has released a freeware version of its popular *Free Mail Mailer* email client. Intended for the commercial, *Free Mail Mailer 2.0* is not recommended for use by anyone for a free copy at <http://www.intl.com/free/mf20.html>. It's OS/2-SPB 1.0 and runs running the product at home and at work and can store placed work in it supports multiple addresses, the attachments and much more.

New News Client

Parsons Software has announced *Problem2This*, an OS/2-based Usenet news-group client. Features filtering, instant decoding, RTTTL support, NAME and URL decoding, is open beta testing, as it knows that you can obtain more information from <http://www.parsons.com/news>.

Sea Office 4.0 Beta

With this product you see the shores of North America's Sea Office's Office Suite (most prominent spreadsheet, database, charting application, personal information manager) or OS/2 has been launching for five years. I have been waiting for this beta-testing European product to be sold here.

Now with version 4.0 coming beta testing, I want this product. Anyone can download the OS/2 beta version (over 40 MB compressed) from <http://192.168.15.123/pchome/seaoffice40beta.html> but note is expected as the cost of August. Please have it in your pocket too.

SmartSuite 97 Beta

Although it hasn't entered public beta yet, *Lotus* has started showing off its *SmartSuite 97* for OS/2. At Camden Spring in Atlanta, Lotus

Continued on page 38

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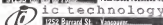
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Online Grocery Shopping Coming to B.C. By June Campbell



Shiva Communications, Canada's first and leading provider of Internet connectivity, has recently opened an office in Vancouver with expectations of making online grocery shopping available to B.C. consumers.

"We have been in the Internet connectivity business for over two years and launched Canada's first online grocery chain in 1998. Now to this we have set up many online storefronts and have direct links to the arts, international communities, the government and business to business applications," says Sandy Fletcher from the new Vancouver office.

"We are bringing a chain of grocery stores online in Vancouver Island and I am excited to be working with some of the best in Vancouver and other areas of B.C." Completely making these Internet consumers and we are one of the few companies actually doing so. I believe this idea can help attract new customers and companies beyond the type of the business and electronic consumer.

Marketing director and founder, John MacKinnon, who was also the first person to use the food industry by signing up Food Fair in Winnipeg, the company became the first to sell online groceries over the Internet. Food Fair now boasts over 1,500 online customers and has already 1,500 on its waiting list.

Food Fair customers select items using a Shopping Cart type feature. A "save list" option allows them to save and reuse their shopping list. Once the list is completed, the customer confirms the order and they opt to print out the list or to be kept as a template. The system is a web site to a server in Montreal, where the customer's personal code is used and the order is forwarded via email to the Food Fair server. The customer then confirms the order by telephone, picks the items and delivery is required.

Payments may be done online via the encrypted Web site or by cash or cheque upon delivery or pickup. Customers average around \$100 with a \$750 order being the largest delivery to a person's home.

The service is more heavily used in winter months and has proven particularly popular with disabled customers and those who are isolated communities in the Canada's north have also taken advantage of the service, ordering online to grocery and paying air freight charges for delivery.

On Aug. 11, Food Fair and Shiva will celebrate their first year of online shopping. MacKinnon declined to provide details regarding B.C. plans but suggested British Columbia would be an interesting market to launch.

For more information, check out Shiva's Web site at <http://www.shiva.ca> or e-mail e-mail to sandy@shiva.ca.

June Campbell is the owner of High-Speed Multimedia Productions. You can reach her by email at jcampbell@shiva.ca or by phoning 604-730-1218 during business hours.

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Symantec Adds Lustre to Telephony Gem with WinFax Pro 8.0

BY J. J. BROS

WinFax Pro 8.0

From Symantec Corporation for Windows
MS-DOS versions 5.0, 5.01 or 6.0. Minimum retail
price \$129

The two crown jewels of the Symantec

Corporation are Norton Utilities and WinFax. In
June, the company introduced an upgraded and
enhanced version of the latter WinFax Pro 8.0
which is a 32-bit fax and telephony program.

Historically a fax program, WinFax continues
to improve with a variety of new features.
For example, WinFax now supports dual
modems, providing a range of settings—local
and fax routes—to allow the user to select
properly for each.

You can also send and track multiple
Internet files, use the grayscale and color
document, such as photographs and clip art,
and can deliver psychological analysis reports
with WinFax-organized files.

The function upgrade in the controller is
WinFax's rather new, the changes within
the status of fax and messages. With just a
mouse click the controller allows you to
quickly access some of the more frequently
needed WinFax options such as fax and
route, without leaving the status pro-
gram.

The phonebook has been expanded to
allow you to include fax ID, personal
information, messaging information such as
address and notes and you can create folders
that allow you to group fax recipients into
convenient categories.

If you need periodic status reports WinFax
allows you to schedule a recurring fax so it is
transmitted either automatically or in the defined
time frame. But you must remember to update
your contact list prior to transmission or
WinFax will automatically send the original
list to your computer.

For those who require hard-copy records
WinFax now provides paper fax confirmation
that you can print out in include date
time the number number of pages and billing
cost.

Get hard

WinFax has always been a fairly flexible pro-
gram—allowing you to adapt a range of options
to suit your individual needs—and with this
version WinFax incorporates even more flexi-
bility. You can customize the number change
your expanded range of outgoing faxes and
configure your incoming fax options.

WinFax also supports stop and drop of mes-
sages, allowing you to use the annotation layer
to complete, insert lines and highlight when
all and permits you to use old faxes as the
basis for new faxes, and provides a fax con-
version menu.

The advanced feature of WinFax is
TalkWinFax a macro-based system introduced in
the previous version. TalkWinFax allows you to
customize a variety of functions including play
back release and report provides a standard
method to set up hard TalkWinFax answering
machine, allows you to create a fax-to-fax
download system and if you have a central cost
and the telephone, permits you to track record
messages in journal.

But beyond—many of WinFax's features
such as TalkWinFax are only available with
certain fax modems.

Consider Symantec's already no longer if your
existing modem is compatible.

For more details, point your browser
to the Symantec Web site at
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U.S. Robotics





You asked us...



You Asked Us Continued from page 39

Installable Macintosh-style disk and running OS/2 as a FAT32-mounted drive Manager partition on "hardware."

Since you already have OS/2 on your hard drive, you should first install a product called Partition Magic. It will let you reformat your hard drive without losing any information. Once Windows 95 is installed from your 4-drive, you may have to reconfigure your partition to fit. Before you try anything don't forget to back up everything!

Fugate's fugueing

Q I read your article about the first Fugate that IBM has brought out for Netiva. I applied that Fugate, and then my machine would not boot anymore due to a problem with one of the new DIMs I bought in the computer prompt and replaced the offending DIM. (THWTF!) With the old version, after which everything has been working fine. It is a little confused now though in this normal and should I worry about this giving me problems in the future?

A Yes.
Kevin Dugdale responds: What you did was perfect for your situation. Although Fugate's patcher may produce odd consequences with OS/2, it does add some degree of its own level of robustness in handling of all of the old files (in the MBR area) correctly. If a user

loses a vital file in existing problems, they can simply replace the "new" file with the older one. But now almost about another Fugate being released this summer and it might be one by the time you read this.

MOS? Not possible!

Q I just bought a 128-Megabyte Modem machine but the maximum speed I can reach is 24.2 Kbps! How I thought it was no modem, but when I brought my computer to my ISP they have replaced the phone line. I contacted and got speed up to 45 Kbps! What can I do to make my phone line faster (or what can I ask the phone company to do)?

Alan Roman responds: Suppose the 45 Kbps is the current best line for it. Consider Modem modern Government regulations in both the U.S. and Canada about the amount of voltage allowed on a twisted-pair phone line. A 45 Kbps at best in the real world is a fairly efficient modem speed in the 45-Kbps. Kbps are more likely and as soon as there's any noise on the line, performance drops down to standard (15 Kbps) or slower. This is for standard only. (Cable or fiber-optic is for 45 Kbps at best.)

Mostly, there are currently two competing standards for Modem modems, and you need the same standard as your Internet service provider. Most are in fact in OS/2-based modems, use as much as a modem program to please that a full-time-time modem (100

477.5 Kbps) is not if your phone line will support higher speeds.

Don't scan me

Q When I use power (electricity) goes out and in HD 8000 HD boots up in a 9000-DOS prompt telling me I might have errors and to Press any key to Continue. Is there any way to skip that I can not be a faster every time no loss power?

Alan Roman responds: It's not a bug. It's a feature. The second version of Windows 95 installed (with Service Pack 2) like Win 95b automatically wants to run "SCANDISK" if the system reports without having gone through the system that there's something in the way it attempts to check for and repair any filesystem damage caused by the last boot.

You can turn this off if you want. Otherwise of Windows 95 boot screen, it's controlled by the last system file. MBR/MS-DOS can edit the file in the file or changed that you'll have to turn off at boot-time and last-time attributes that there, add a line in the (system) screen making "AutoScan" (or "scan" or "scan") and remove the read-only and hidden attributes.

Duplex Dilemma

Q To Alan, I was wondering about the Internet Phone program I got as a "companion" (I don't like that name with any modern thing meaning it is not fully informed with it in full-time duplex and how can I change

it. And is it really true that I can talk to people over the Net too over the phone?

Alan

Alan Roman responds: You can use the Internet as a way of long-distance phone you and the video part, need to be on the Net at the same time and you need to connect to a server that supports voice software. You'll probably find a commercial unit that is not too expensive and the price is right!

In order to do this, you need a modem card that supports full duplex—that means it can receive 60 Kbps and output 60 Kbps at the same time otherwise you're limited to the kind of communication you associate with early radio—one person talking, the other listening (two receiving lines). Most recent modem cards support full duplex, but not all do, and in many cases (as in the popular Sound Blaster 16) you have to specifically turn it on using the example the Windows 95 Control Panel.

And any PC-related questions to Alan Roman can be reached by e-mail at Alan_Roman@att.net or by mail at:

• OS/2 questions should be directed to Kevin Dugdale, a Toronto-based consultant and technician with the OS/2 for Macintosh at: kevin.dugdale@att.net

• If you have questions for Macintosh, David Ross, send them to: MacCoy@mac.com. Your last name and email address will not be printed. All of the Macintosh questions become the property of Macintosh and David Ross. ■

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Flowcharter 7

from Micrographix (free, \$450 (\$170 upgrade) as part of Graphics Suite 2, \$480 (\$200 upgrade)

The days of doodle art over Post-it notes for an explanatory diagram or flowchart need to be an increasingly distant memory. The more programs such as View, GraphViz 3, and ABClear have made the process much more approachable, but the latest release of the venerable diagramming and flowcharting programs, Micrographix's Flowcharter 7.0, once again shows how to make diagramming really fun.

Start doing with thousands of icons and templates plus thousands of clipart images. Micrographix has stock art, Cool Effects and Living Flowcharts for all these needs and looks terrifically easy when used a little extra help in explaining or clarifying, their notes.

Diagrams and Flowcharts

Diagrams and flowcharts are an alternative

for presentations. The approach you choose will depend on the type of the information you need to convey.

1. Use a diagram or flowchart when:
 1. there are several connected or inter-related objects or the diagram
 2. a process or task is a series of steps needs to be explained
 3. detailed instructions on what and how must be included
 4. and when "where" and "when" to do, not "why" or "how come" is the message
2. Use a presentation program when:
 1. presentation is the main message
 2. numbers and graphics are major parts of the show
 3. ideas and concepts have to be listed and explained in bullet form
 4. a slide show with unique style and special effects is required

I have used each system and presentation and both work at home or work/teaching. But choice of diagramming tends to bring success.

visual and presentation tends to presentation

Getting into Shape

Flowcharter 7 comes with dozens of pre-designed templates for use in your diagrams. In addition, the program links up with the Micrographix Multifunction drawing tool of thousands of clip-art drawings and patterns to be easily dropped into your diagram. In a particular time to check out the Shape palette (you click on the arrow bar to step through the palette choices) and see what inspires you most to work with. My personal favorites are: Arrows, Color, Flowchart, Industrial, Signs, Symbols, SHAPES, Horizontal, Office, People and Project Diagrams.

To draw a shape just click inside the shape tool window listing your diagrams. Click on the icon and you'll see a shape appears. Click again and another copy appears. Go to the Shape palette and click on the icon shape you want. Press the mouse to where you want the shape and click. That's a really good concept of formatting the shape—that is, really draw

further layout first on its shape then click on the Shape button to just change another and from the window.

Flowcharter is a complete drawing program with all the basic drawing tools (line, curve, ellipse, custom line, joined line, polygon, shape, and so on) and shape windows (bring in lines and back shape, rotate, move, change shape, and so on) and one can would expect in a good drawing program. The trick is to have two things that the shapes and can move and move them (linked together they move) and move to move (linked together they are a cluster of shapes) the working with Flowcharter shapes.

Here are some basic tips. When you have entered the shape window draw it and make you have to remember to have them all either by selecting a different tool, clicking the Shape button or right mouse clicking anywhere and select the Shape Tools.

Right mouse click on a shape. When you right mouse click on a shape, a menu pops up allowing you to edit the shape and its position (format, including color fill, and window properties, and shape). Right mouse click on the icon and you can see general properties that apply to the complete drawing. Right mouse click on the outline and you can

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Surf Monkey!

Battilo and McDonald have teamed up to introduce a special Web browser aimed at 10- to 14-year-olds. Surf Monkey is a fun and interactive Web site to Internet Explorer and Internet Web access and an excellent choice. Suggested retail price is \$19.95. Half price is \$9.95 (<http://www.surfmonkey.com>) to find out more.

Photo manipulation update

On August 11 Adobe plans to release Adobe Photoshop 2.0 for Windows and Macintosh. Photoshop allows even the most basic computer to manipulate and edit digital images. Its suggested street price is \$139.95. More details can be found at <http://www.adobe.com>.

Gathering Information

Weather is a free, highly proficient, personalized information service that coaches the

Internet and delivers customized information to consumers and business users. The service is at <http://www.weather.com> for more.

Hot Web sites

<http://www.arts4travel.com>

This site features the 400-page Museum Handbook, a complete ARTE travel guide.

<http://www.terracanadian.com>

Canada's first online radio station, delivering a virtual station of information, interactive content, and resource entertainment with a Canadian viewpoint.

<http://www.ecbc-feds.ca>

CBC Radio's new Web site for kids featuring a cartooning children's radio format.

<http://www.personal.accumet.com>

This is a personalized online weather service for accurate, comprehensive, localized, and current weather information. ■

the Technomad

Continued from page 32

Adventures! Because the Internet supports both time-shifting (doing data in chunks to others in spite of differing schedules and time zones) and time-space geography (overcoming all the obstacles imposed by distance and location), my correspondence and information sharing was so effective, as if it had happened on "real" time.

An excellent ending today is in the rear. But the Technomad tour was also designed as a place where technology questions could be asked—and answered! What did the Technomad Tour power?

The good news is that the basic idea behind the tour worked—thus I could use a portable computer and a cell phone to stay in touch and that the costs survived the extreme conditions imposed by expense to the east and to the elements. Not everything worked quite as planned—but the tour was, after all designed to be a trial run, so this only meant that the learning was incorporated into the continuing design.

Charge of the Bike Brigade

First, the interparental power struggle charges into a mine in the trip at the 11th hour it was discussed that there was a glitch with the superprocessor that managed the flow to the batteries—the PCs were OK but the batteries weren't accepting the charge. In the sudden power drop at the tail of McCabe life is as close to use as the pit-stop. I decided to leave the extra parent unit behind until the problem was corrected, relying instead on a Pure Energy alkaline recharger. As always the Pure Energy unit worked beautifully—I recharged all my batteries at a hotel in Goose Bay. On the 11th day of this there was no way I was going to camp that night! In the office of Quebec

Ministère in Montreal, and at a campground in New York state, where I found an electrical outlet taped to a tree near my campsite.

Cellular access exposed certain limitations on the experience. Everywhere I had access to full mobility's exciting freedom, I was able to do the impossible. The Power charger over the cell phone grabbed the connection from the ether and made it work as if it was meant to. In New York state, however, HYPER (the local equivalent of Bell) offers very little cellular coverage—no, while I was in New York, I was effectively shut off from access.

The fact that the Internet connection from the through a cellular phone is 56Kbps made me decide not to transmit photos taken with the digital camera to the stick-around—sending a number of 100 or 200 text messages was one thing, but sending for a 15 MB image file to transfer at 56Kbps was simply impossible. So I went to Plan B, which was to save the photos on the Kodak DC25, record their subjects and locations on the Palm, and transfer the images to the Technomad Web site on my return.

With those two exceptions, though every thing worked beautifully and the experience I had on the Tour not only demonstrated the possibilities of mobile computing, but also marked the threshold of new and exciting developments in the field—which is why I'm already planning to enhance Technomad 2 Tour for 1998.

Check out the Technomad Web site to see the status of the 1997 tour and to check out what's developing for 1998. Post your Web browser at <http://www.primos.com> and have a good link around—and stay! Forget to send me some mail!

Alan Threlk is a freelance journalist who specializes in mobile computing and online technologies. He can be reached at alan@threlk.com. ■

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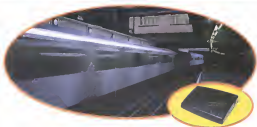
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